

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/010845

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl.<sup>7</sup> H04J15/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl.<sup>7</sup> H04J15/00Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| Y         | JP 2000-101667 A (Lucent Technologies Inc.),<br>07 April, 2000 (07.04.00),<br>Par. Nos. [0006] to [0017]; Fig. 1<br>& EP 0951091 A2 & KR 99083226 A<br>& US 6317466 B1 & US 2001/0050964 A1                         | 1-20                  |
| Y         | WO 2003/001702 A1 (QUALCOMM INC.),<br>03 January, 2003 (03.01.03),<br>Full text; all drawings<br>& US 2003/0043732 A1 & EP 1410526 A1<br>& KR 2004008227 A & US 6751187 B2<br>& AU 2002320176 A1 & JP 2004-531980 A | 1-20                  |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"&amp;" document member of the same patent family

Date of the actual completion of the international search  
22 October, 2004 (22.10.04)Date of mailing of the international search report  
09 November, 2004 (09.11.04)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.   |
|-----------|--|-------------------------|
| A         | WO 2002/075953 A2 (HEINRICH-HERTZ-INSTITUT FÜR NACHRICHTENTECHNIK GMBH.),<br>26 September, 2002 (26.09.02),<br>Page 9, lines 5 to 19<br>& DE 10114052 C1 & WO 2002/075953 A2<br>& EP 1374419 A2 & AU 2002302314 A1                             | 1-20                    |
| A         | JP 2003-110474 A (Lucent Technologies Inc.),<br>11 April, 2003 (11.04.03),<br>Par. No. [0020]<br>& EP 1289182 A2 & US 2003/0076908 A1  | 1-20                    |
| A         | JP 2003-179965 A (Sanyo Electric Co., Ltd.),<br>27 June, 2003 (27.06.03),<br>Par. Nos. [0050] to [0052]<br>(Family: none)  | 4, 5, 11, 16,<br>17, 19 |
| A         | JP 2001-333002 A (NTT Docomo Inc.),<br>30 November, 2001 (30.11.01),<br>Par. Nos. [0050] to [0054]<br>& EP 1158696 A2 & US 2002/0003833 A1<br>& CN 1349366 A   | 6, 18                   |
| A         | JP 2003-032745 A (Matsushita Electric Industrial Co., Ltd.),<br>31 January, 2003 (31.01.03),<br>Par. No. [0087]; Fig. 12<br>& WO 2003/007646 A1 & KR 2003036783 A<br>& US 2004/0022176 A1 & EP 1408712 A1<br>& CN 1473448 A & AU 2002318520 A1 | 6, 18                   |
| A         | JP 2002-319885 A (Matsushita Electric Industrial Co., Ltd.),<br>31 October, 2002 (31.10.02),<br>Par. No. [0047]<br>& WO 2002/087113 A1 & EP 1286481 A1<br>& KR 2003011904 A & US 2003/0189917 A1<br>& CN 1461539 A & AU 2002248032 A1          | 7, 8                    |
| A         | JP 11-205205 A (Nippon Telegraph And Telephone Corp.),<br>30 July, 1999 (30.07.99),<br>Full text; all drawings<br>(Family: none)   | 7, 8                    |
| A         | JP 2000-209145 A (Nippon Telegraph And Telephone Corp.),<br>28 July, 2000 (28.07.00),<br>Par. Nos. [0010] to [0015]<br>(Family: none)  | 9                       |